

Passenger Locomotive Crashworthiness

Program Description:

- Extend strategies for preventing cab car override to locomotives
 - Pushback coupler
 - Deformable anti-climber

Scope of Problem Addressed:

- On average, one severe passenger train accident occurs every six months
- There are approximately 20 passenger fatalities per year



Planned Milestones/Deliverables:

- Develop prototype designs for locomotive pushback coupler and deformable anti-climber
- Build component test articles
- Conduct component tests

Lessons Learned:

- Approach has been demonstrated to be effective in preventing cab car override

Strategic Goals and Benefits:

- Potentially beneficial in locomotive-to-locomotive and in cab car to-locomotive collisions
 - Potentially can be retrofit onto existing locomotives